

DERWENT-ACC-NO: 2003-187704

DERWENT-WEEK: 200319

COPYRIGHT 2008 DERWENT INFORMATION LTD

TITLE: Manufacture of powder coating for electrostatic
coatings,
involves hardening mixture of resin binder,
aluminum
powder and/or chromium and pulverizing hardened
product

INVENTOR: KUROSAWA R; MATSUURA K

PATENT-ASSIGNEE: KUROSAWA KENSETSU KK[KURON]

PRIORITY-DATA: 2001JP-008341 (January 16, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
<u>JP 2002212494 A</u>	July 31, 2002	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP2002212494A	N/A	2001JP-008341
January 16, 2001		

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	B05D5/00	20060101
CIPS	B05D7/24	20060101
CIPS	C09D163/00	20060101
CIPS	C09D5/03	20060101
CIPS	C09D5/10	20060101

ABSTRACTED-PUB-NO: JP 2002212494 A

BASIC-ABSTRACT:

NOVELTY - Resin binder, aluminum powder and/or chromium powder are mixed, and the mixture is hardened. The hardened mixture is pulverized to manufacture powder coatings.

DESCRIPTION - An INDEPENDENT CLAIM is included for steel materials

electrostatically coated by powder coatings.

USE - For electrostatically coating steel materials (claimed) such as steel rod, prestressed concrete wire and reinforced steel rod to make them anticorrosive.

ADVANTAGE - The powder coating enables to form anticorrosive film on steel materials by electrostatic coating, at low temperature, without influencing the strength of steel materials. The steel coated with the powder coating exhibits corrosion proof properties for a long period of time, under highly corrosive environments such as underground water.

EQUIVALENT-ABSTRACTS:

POLYMERS

Preferred Resin: The resin is epoxy resin, polyester resin, acrylic resin or urethane resin.

INORGANIC CHEMISTRY

Preferred Composition: The powder coating contains 40-60 weight% of aluminum and/or chromium powders.

Aluminum powder (in weight%) (40) having particle size of 1-5 μm and epoxy resin (60) were mixed at 270-300 $^{\circ}\text{C}$. The mixture was cured and the hardened product was pelletized. The pellets were ground, and powder coating for electrostatic coating containing aluminum powder was obtained. The aluminum powder size was 30-35 μm .

TITLE-TERMS: MANUFACTURE POWDER COATING ELECTROSTATIC HARDEN MIXTURE RESIN BIND

ALUMINIUM CHROMIUM PULVERISE PRODUCT

DERWENT-CLASS: A14 A28 A82 G02 P42

CPI-CODES: A12-B04; G02-A05E;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; S9999 S1514 S1456; L9999 L2391; L9999 L2073; M9999
M2073;

P0464*R D01 D22 D42 F47; S9999 S1547 S1536;

Polymer Index [1.2]

018 ; ND01; ND07; ND03; N9999 N6155; N9999 N6439; Q9999
Q7114*R;

Q9999 Q7136 Q7114; K9552 K9483; K9676*R; K9712 K9676; N9999
N7147

N7034 N7023; N9999 N7056 N7034 N7023; K9665; Q9999 Q7001
Q6995; K9596

K9483; Q9999 Q6791; K9892; K9449; B9999 B4580 B4568; B9999
B4706*R

B4568; B9999 B4591 B4568;

Polymer Index [1.3]

018 ; N9999 N6597 N6586;

Polymer Index [1.4]

018 ; D00 D09 Cr 6B Tr; D00 D09 Al 3A R03167 110; A999 A237;
A999

A771; S9999 S1514 S1456; B9999 B5209 B5185 B4740;

Polymer Index [2.1]

018 ; S9999 S1514 S1456; L9999 L2391; L9999 L2073; M9999
M2073;

P0839*R F41 D01 D63;

Polymer Index [2.2]

018 ; S9999 S1514 S1456; L9999 L2391; L9999 L2073; M9999
M2073;

P0088*R;

Polymer Index [2.3]

018 ; S9999 S1514 S1456; L9999 L2391; L9999 L2073; M9999
M2073;

P1592*R F77 D01;

Polymer Index [2.4]

018 ; ND01; ND07; ND03; N9999 N6155; N9999 N6439; Q9999
Q7114*R;

Q9999 Q7136 Q7114; K9552 K9483; K9676*R; K9712 K9676; N9999
N7147

N7034 N7023; N9999 N7056 N7034 N7023; K9665; Q9999 Q7001
Q6995; K9596

K9483; Q9999 Q6791; K9892; K9449; B9999 B4580 B4568; B9999
B4706*R

B4568; B9999 B4591 B4568;

Polymer Index [2.5]

018 ; D00 D09 Cr 6B Tr; D00 D09 Al 3A R03167 110; A999 A237;
A999

A771; S9999 S1514 S1456; B9999 B5209 B5185 B4740;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: 2003-049477

Non-CPI Secondary Accession Numbers: 2003-148144